ENVIRONMENTAL CHEMISTS

Date of Report: March 12, 1996 Date Received: March 7, 1996

Project: Metro Self Monitor, PO #M52543 Date Samples Extracted: March 7, 1996 Date Extracts Analyzed: March 8, 1996

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, AND ZINC USING METHOD 6010

Samples Processed Using Method 3005 Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M52543	0.39	0.36	0.25	0.13
	skuštīnite			
Method Blank	< 0.05	<0.05	<0.05	<0.05

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Date of Report: March 12, 1996 Date Received: March 7, 1996

Project: Metro Self Monitor, PO #M52543

QUALITY ASSURANCE RESULTS FOR CHROMIUM, COPPER, NICKEL, AND ZINC BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 66957 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromiun	n mg/L (ppm)	0.39	0.38	3	0-20
Copper	mg/L (ppm)	0.36	0.35	3	0-20
Nickel	mg/L (ppm)	0.25	0.28	.11	0-20
Zinc	mg/L (ppm)	0.13	0.09	36a	0-20

Laboratory Code: 66957 (Matrix Spike)

							Relative
	Reporting	Spike	Sample	% I	Recovery	Acceptance	e Percent
Analyte:	Units	Level	Result	MS	MSD	Criteria	Difference
Chromium	mg/L (ppm)	5	0.39	90	100	80-120	11
Copper	mg/L (ppm)	5	0.36	93	103	80-120	10
Nickel	mg/L (ppm)	10	0.25	89	93	80-120	4
Zinc	mg/L (ppm)	5	0.13	88	88	80-120	0
		offer the second of the second			The second of the second		

Laboratory Code: Spike Blank

		~ .				Relative
Analyte:	Reporting Units	Spike Level	% Re	covery MSD	Acceptance Criteria	Percent Difference
Chromium	mg/L (ppm)	5	95	100	80-120	5
Copper	mg/L (ppm)	5	98	103	80-120	5
Nickel	mg/L (ppm)	10	94	99	80-120	5
Zinc	mg/L (ppm)	5	93	97	80-120	4

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

RIEDMAN & BRUYA, INC. 1012 16th Avenue West

Seattle, WA 98119-2029 (206) 285-8282

SAMPLE CHAIN OF CUSTODY

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Fu?MS/COC

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ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

March 12, 1996

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on March 7, 1996 from your Metro Self Monitor, PO #M52543 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson

Chemist

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Enclosures

FAX: 382-7335 ACU0312R.DOC

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

March 12, 1996

INVOICE # 96ACU0312-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M52543: Results of testing requested by Gerry Thompson, Project Manager for material submitted on March 7, 1996.